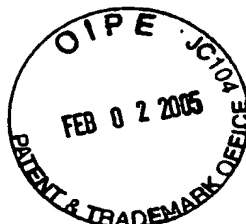




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Tuesday, February 01, 2005

0508-1013
PATENT

IN THE U.S. PATENT AND TRADEMARK OFFICE

In re application of

Mohamed CHOKRI et al.

Confirmation No. 2743

Serial No. 09/194,053

GROUP 1644

Filed November 23, 1998

Examiner Gerald R. Ewoldt

**NEW ANTIGEN PRESENTING CELLS, A
PROCESS FOR PREPARING THE SAME
AND THEIR USE AS CELLULAR VACCINES**

RULE 132 DECLARATION OF MICHAEL T. LOTZE

Commissioner for Patents
Washington, D.C. 20231

Sir:

I, Michael T. Lotze, hereby declare as follows:

I am Professor of Surgery, Molecular Genetics and Biochemistry at the University of Pittsburgh Cancer Institute and Director of Translational Research in its Molecular Medicine Institute. A summary of my background and relevant experience, and a partial listing of my publications, accompanies this declaration.

I was nominated to the Scientific Advisory Board of Immuno-Designed Molecules (IDM), the assignee of the above-identified application, in September of 2002. I am familiar with the content of International application PCT/EP97/02703 filed on May 15, 1997 and hence of the

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above-identified application, which is continuation of the national stage of that International application. In addition, I have reviewed the claims that are now pending in the application, both prior to the amendment that I understand is being filed simultaneously with this declaration, and as amended by that amendment

I have also reviewed the most recent Official Action issued by the U.S. Patent Office in this application, and I understand the several positions now taken by the Patent Office with respect to the patentability of the claims of this application

I make this declaration to address the concerns raised in the Official Action that the MD-APCs first described in this application are not disclosed by the specification in such a manner as would enable a person of ordinary skill in the art to make and use the invention as claimed; and the further contention that the description of the invention provided by the specification would not have conveyed to a skilled person that the inventors were in possession of the invention as claimed at the time the application was filed.

1. The Specification Demonstrates the Production of a New Phenotype Possessing the Claimed Properties

In reviewing the outstanding Official Action in this case, I am left with the impression that the US Patent Office is unconvinced, as a threshold matter, that the specification actually teaches the production of the claimed new phenotype; and that the US Patent Office instead believes that the specification may have mistakenly attributed such a discovery to a mere mixed cell population containing conventional macrophages and mature dendritic cells. I write first to express my disagreement with that hypothesis, and to state several reasons that I believe demonstrate that position to be untenable.

I note initially that in the years following the May 15, 1997 International filing date of this application, the MD-APCs described therein (sometimes referred to under IDM's registered trademark "Dendritophage®") have gained acceptance in the scientific community as indeed constituting a new phenotype of antigen-presenting cell having particular utility in the field of cellular immunotherapy, in view of their properties of not only stimulating proliferation of T lymphocytes, but also possessing the ability to phagocytose both yeast and tumor cells, which combination of properties is not characteristic of either mature dendritic cells or conventional macrophages. See, for example, *Biochem J.*, **368**, 111-119 (2002), and *J. Biol. Chem.*, **278**, Issue 26, 23922-23929 (June 27, 2003), in addition to IDM's own numerous publications.

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For the purposes of this declaration, however, I have been asked to confine my comments to the data and disclosure provided in the patent specification as filed on May 17, 1997, and to focus on the adequacy of that description as of that date.

A first observation in relation to the specification is that it states explicitly in numerous places that the techniques described therein do in fact produce new antigen presenting cells having this heretofore unattained combination of properties (see, for example, the specification at pg.1, lines 1-5; page 1, line 30 to page 2, lines 35). I am not sufficiently familiar with US patent practice to know whether it is proper for the recent Official Action to discount those statements, but, in any event, there are also clear experimental results in the specification that demonstrate the existence of the new phenotype claimed.

For example, Table 2 on page 17 of the specification provides a phenotypic analysis of the MD-APCs. Although no one of the individual mean intensity fluorescence (MIF) values given in that table are especially meaningful without identification of the standard used, nevertheless, the set of values and the *relative* magnitudes of those values in comparison to one another are highly significant in characterizing the new phenotype. Specifically:

- conventional macrophages do not normally express CD 83, whereas mature dendritic cells do express CD 83. Thus, the absence of any detectable signal for CD 83 in Table 2 indicates that the MD-APCs are not conventional mature dendritic cells, and do not contain such cells in any significant proportion.
- the CD 14/CD 64 values shown in Table 2, especially considered in relation to the HLA-DR value, are too low for macrophages, whereas the relatively high expression of HLA-DR is indicative of a good antigen-presenting cell, i.e., more like dendritic cells and less like macrophages.

The data in Table 2 considered collectively and comparatively is therefore consistent with the new phenotype described in the specification, but would not be consistent with a mixed population of mature dendritic cells and conventional macrophages, as posited in the Official Action.

Table 3 on page 18 of the specification is also indicative of the new phenotype. In that table, where each of the two columns of data of course adds up to 100%, it can be seen that relatively high percentages of the MD-APCs (whether prepared with or without GM-CSF) phagocytose six or more yeast particles after three hours' incubation, with a non-negligible percentage phagocytosing more than ten yeast particles. By contrast, a homogeneous population of conventional macrophages subjected to the same testing conditions would be expected to show about 40% of the macrophages ingesting no yeast particles after three hours, and about 60%

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ingesting from one to five yeast particles over that time frame. In other words, Table 3 shows the MD-APCs of the IDM patent application to be even more strongly phagocytic than conventional macrophages.

It goes without saying that, because mature dendritic cells are much less phagocytic than macrophages, a mixed population of mature dendritic cells and conventional macrophages would be expected to shift the percentages in Table 3 even more strongly toward the zero yeast particle level, in further contrast to the data obtained for the new MD-APCs of the IDM invention. Thus, the data in Table 3 is also consistent with the new phenotype described in the specification, and inconsistent with a mixed population of mature dendritic cells and conventional macrophages.

The Official Action points to the data at page 5, lines 18-29, and particularly to the sometimes low percentage of MD-APCs that are said to express a given surface antigen, as evidence of a mixed cell population devoid of the claimed new phenotype. However, that position appears to overlook the import of the qualifying passage at page 5, lines 30-31, wherein it is noted that the properties appearing immediately above are expressed in terms of the measured intensities. The data thus relates to the immunofluorescence and flow cytometry analysis described in the specification at page 3, lines 14-21; page 4, lines 1-7; and page 5, lines 1-6. Therefore, a relatively low percentage value on page 5 merely suggests that the already low expression of the antigen in question was not detected for all cells; or, in the case of phagocytosis, that, not all of the cells will ingest yeast particles in the time allotted for the test. Furthermore, it would be expected by a person skilled in the art that the level of expression of the antigens would vary to some degree among the cells of a given population. That is, the same type of cell may express different levels of antigen depending upon the cell's development or physiological state. A level of expression of antigen expression that may vary to some degree from one MD-APC to the next does not indicate a mixed cell population. Therefore, I believe that the data and discussion in the specification demonstrate that the inventors of the IDM patent application were in possession of a new cell phenotype having the claimed characteristics, at least as early as the May 17, 1997 international filing date of the application.

2. The Specification Teaches How to Make the New MD-APCs

The specification teaches how to make the claimed MD-APCs at several levels of detail, see, for example page 10, lines 3-28; page 11, lines 7-33; and page 11, line 34 through page 12, line 29. These constitute a reproducible protocol for producing MD-APCs having the claimed characteristics.

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The ligands used to create the MD-APCs were a combination of histamine and cimetidine in the examples most fully described, and it is also clear from page 14, lines 32-37 and Fig. 1b that MD-APCs were made by the alternative approach of using IL-13 as the ligand. It bears noting that IL-13 is involved whether it is added directly or whether histamine and cimetidine are used. When histamine and cimetidine are used, these ligands coact on the lymphocytes present in a mixed cell culture (monocytes + lymphocytes, see specification, page 11, line 16), with cimetidine blocking the TH2 lymphocytes and histamine stimulating the unblocked TH1 lymphocytes. The combined action of histamine and cimetidine thus acts to selectively stimulate the TH1 lymphocytes, which in turn leads to secretion of cytokines including IL-13.

When IL-13 is used directly, as described at page 14, lines 32-37 and in Fig 1(b), the specification does not indicate how much of the cytokine is to be used. Nevertheless, the *Biochem J.*, 368, 111-119 (2002), and *J. Biol. Chem.*, 278, Issue 26, 23922-23929 (June 27, 2003) articles referenced above show that the new phenotype is produced when IL-13 is used at quite conventional concentrations. In my opinion, the amount of IL-13 to be used would clearly be arrived at by a person skilled in this art after only quite routine experimentation.

The Official Action also suggests that, if the new MD-APCs are produced using IL-13, then a question would arise as to whether the claims are novel in view of the literature article Piemonti et al., "IL-13 supports differentiation of dendritic cells from circulating precursors in concert with GM-CSF," *Eur. Cytokine Netw.*, Vol. 64, No. 4, July-December 1995, pp. 245-252. However, the teaching of the IDM patent specification is quite clear that the monocytes are to be cultured in hydrophobic bags (see page 10, lines 10-12; page 12, lines 20-21; and page 15, lines 23-24 of the IDM specification). Thus, the culture of the monocytes in the IDM invention occurs with the monocytes in a non-adhered state. On the other hand, in the Piemonti article, it is clear that the monocytes were plated prior to culturing (see p. 246. left-hand column "[c]ells were cultured for 7 days at 5 x 10⁵/ml in 6-well tissue culture plates..."; and p. 247, left-hand column, "[a]fter 7 days cell recovery for both cytokine combinations was usually 50-70% of the cells originally plated"). Adhered monocytes are of course a different phenotype than non-adhered monocytes, and it is therefore unsurprising that Piemonti and his colleagues produced cells quite unlike those of the IDM invention. It is therefore my opinion that that the IDM patent specification clearly teaches one of ordinary skill in the art how to make and use the new cell type disclosed.

The undersigned declare further that all statements made herein of their own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so

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made are punishable by fine or imprisonment, or both, under §1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Sincerely yours,



Michael T. Lotze, MD
Professor of Surgery, Molecular Genetics and Biochemistry
University of Pittsburgh School of Medicine
Director, Translational Research; Molecular Medicine Institute
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Pittsburgh, PA 15219
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Email LotzeMT@upmc.edu

Date 2/2/05

CURRICULUM VITAE

Wednesday, April 02, 2003

Name: Michael T. Lotze, M.D.

Birth Date:

July 11, 1952

Home
Address:

Birth Place:
Citizenship:

Altadena, CA
U.S.A.

Home Phone:

Social Security:

Business Professor Surgery, Molecular Genetics and Biochemistry
University of Pittsburgh Medical School

Address: University of Pittsburgh Cancer Institute
W1540 Biomedical Science Tower
Pittsburgh, PA 15261

Spouse: Joan Harvey, M.D.
June 25, 1977

Children:
Thomas, 3/30/79
Anna, 6/1/81
Michael, 11/3/83
Jenette, 11/24/88

Business
Phone:
Fax:

E-mail Addresses:

EDUCATION AND TRAINING

Undergraduate

1969-1973 Northwestern University B. Medical Sciences
Evanston, IL

Graduate

1971-1974 Northwestern University Medical School, M.D. (Honors Program in
Chicago, IL Medical Education)

Postgraduate

1975 M. D. Anderson Tumor Institute Jr Medical Fellow, Surgery
Houston, TX

1975-1976 Strong Memorial Hospital Intern/Resident, Surgery
Rochester, NY

1976-1977 Strong Memorial Hospital Assistant Resident,
Rochester, NY Surgery

1978-1980 National Cancer Institute Staff Fellow, Surgery
Bethesda, MD Branch

1980-1982 University of Rochester Sr. & Chief Resident, Surgery
Rochester, NY

2002	University of Pittsburgh Pittsburgh, PA	Mini-MBA Business Essentials for the Bio-Scientist
2002	ProteinChip University	Ciphergen ProteinChip Technology Protein Profiling Advanced Course; July 26, 2002

APPOINTMENTS AND POSITIONS

Academic

1972	University of Muenster, Westphalen West Germany	Res. Asst. Physiologische Institut II
1975	Twelve Oaks Hospital Houston, TX	Emergency Room Physician
1980-1982	University of Rochester	Instructor in Surgery
1983-1988	Uniformed Services University Bethesda, MD	Assistant Professor of Health Sciences
1988-1990	Uniformed Services University Of the Health Sciences, Bethesda, MD	Associate Professor of Surgery
1990-Present	University of Pittsburgh Pittsburgh, PA	Professor of Surgery, Molecular Genetics and Biochemistry;
1990-2000		Chief, Section of Surgical Oncology; made a Division in 1998
1991-2000	Pittsburgh Genetics Institute Pittsburgh, PA	Codirector, Human Gene Therapy Program
1992-2000	Pittsburgh Cancer Institute Pittsburgh, PA	Codirector, Division of Biological Therapeutics
1995-Current	Pittsburgh Biotechnology, Inc	CEO and President
1999-2001	SmithKline Beecham Pharmaceuticals	Vice President and Director, Division of Inflammation, Tissue Repair & Oncology World Wide Discovery Biology; Research and Development
2001	GlaxoSmithKline Pharmaceuticals	Vice President and Director, High Throughput Biology; Discovery Research Biology; Research and Development

2002	Metacine, Incorporated	Chief Scientific Officer, Cofounder Sr. VP for Medical Affairs
2002	University of Pittsburgh Molecular Medicine Institute	Director, Translational Research
2002	University of Pittsburgh School of Engineering, Dept Bioengineering	Professor of Bioengineering

GOVERNMENT

1977-1978	National Health Service Corps Onamia, MN	Medical Officer
1982-1990	National Cancer Institute Bethesda, MD	Senior Investigator, Surgery Branch

CERTIFICATION AND LICENSURE

Speciality Certification

1983	American Board of Surgery	#29138 Surgery
1993	American Board of Surgery, Recertification	#29138 Surgery

MEDICAL OR OTHER PROFESSIONAL LICENSURE

1975	National Board of Medical Examiners	Diplomate
1976	New York	129152
1977	Minnesota	23584
1979	Maryland	D23864
1990	Pennsylvania	MD-042025-L

MEMBERSHIP IN PROFESSIONAL AND SCIENTIFIC SOCIETIES

American College of Surgeons, Fellow
 American Medical Association
 American Association of Cancer Research
 1991 Program Committee
 American Association of Immunology
 1990,1992 Program Committee
 1996/97 Comoderator Tumor Immunology Minisymposium
 1997-2000 Tumor Immunology Block Cochair
 American Society of Clinical Oncology
 1996/97 Program Committee
 American Surgical Association
 Association for Academic Surgery
 Cell Transplant Society
 Central Surgical Association

Clinical Immunology Society
 1993 Program Committee
 2001, 2002 Federation of Clinical Immunology Societies, SBT Representative
 Melanoma Research Foundation
 1996-Present Board of Directors
 Molecular Medicine Society
 Society for Analytical Cytology
 Society of Biologic Screening, 2001
 Society of Surgical Oncology
 1992, 1993 Program Committee; 1993-1997 Clinical Affairs Committee
 Society of University Surgeons
 Society for Biologic Therapy
 1991-1993 Program Committee
 1994-Present Executive Council
 1996-1998 Vice President and President Elect
 1998-2000 President
 Surgical Biology Club
 World Association of Hepato-Pancreatico-Biliary Surgery

EDITORIAL BOARDS

1988 European Cytokine Journal
 1990 J. Immunotherapy (Formerly J. Biological Response Modifiers, Assoc. Editor)
 1990-1995 J. Immunology
 1990-1994 Contemporary Oncology
 1991 General Surgery & Laparoscopy News (Surgical Oncology)
 1991 Melanoma Research
 1993 Therapeutic Immunology
 1993 Cancer Research, Therapy and Control
 1994 Cancer Gene Therapy, Associate Editor
 1995 Clinical Cancer Research (Associated with AACR)
 1995 Natural Immunity
 1995 The Cancer Journal, Associate Editor
 1995 Gene Therapy (Nature)
 1995 Cytokines and Molecular Therapy
 1996 Human Gene Therapy
 1997 Cancer Therapeutics
 1999-2001 Clinical Immunology
 2000 Current Opinion in Investigational Drugs, Gene Therapy/Oncology Section Editor
 2003 Journal Immunotherapy, Associate Editor

ACTIVITIES

1983-1990 Hospital Infection Control Committee, NIH
 1984 Member, Source Evaluation Group RFP NCI CM 37613-64; "Phase I/II Clinical Evaluation of BRMs for the Treatment of Cancer"

1985-1990 Project Officer, Cell Sorting Operation, Surgery Branch, NCI

1985 FDA License Committee, Interferon Licensure in Melanoma

1985 Member, Source Evaluation Group RFP:NCI. CM 37613-64; MAO 4,5:Phase I Clinical Trial of Cytotoxic Activated Lymphocytes/IL-2

1985 Amer. Coll. Surgeons Rep.; CDC Task Force: Recommendations for Preventing Transmission of Infection with Human T-Lympho-trophic Virus Type III-Lymphadenopathy-associated Virus During Normal Procedures.

1985-1987 Coordinator, NIH Melanoma Working Group

1985-1987 Review Board, United Cancer Council, Inc., Rochester, NY

1987 Chairperson, Minisymposium on In Vivo Effects of Cytokines; FASEB, Washington, D.C. 4/1/87

1987 Representative, NCI Melanoma Clinical Strategy Group

1988-1990 Surgery Br. Rep., NCI Investigational Review Board

1989 Cochairperson, Minisymposium on T-cells and the Treatment of Cancer; AACR, San Francisco, CA; 5/25/89

1990 Ad Hoc Reviewer, Experimental Immunology Study Section, NIH

1990 Cancer Group, National Disease Research Interchange; 9/17/90

1990 Surgical Forum Moderator (Tumor Immunology), American College of Surgeons; San Francisco, CA; 10/8/90.

1990 Chairman, Special Study Section, Experimental Immunology, NIH

1990 Cancer Vaccine Workshop, NCI; Bethesda, MD; 10/29/90

1991 Planning Committee, NIH Consensus Development Conference on the Diagnosis and Treatment of Early Melanoma

1991 Participant, NIH Training Grant, University of Pittsburgh, "Molecular Mechanisms and Therapy of Childhood Diseases"

1991 Chairperson, Minisymposium on Antitumor Effectors; FASEB, Washington DC; 4/22/91

1991 Society of Surgical Oncology/Program Committee/Research and Government

Relations Committee

- 1992 - 1995 American Society of Clinical Oncology
Young Investigator Award, Clinical Development Award Committee
- 1992 Search Committee, Chair UPMC Director Radiation Oncology
- 1992-1995 External Advisory Committee, "Immunity to Lung Tumors and Melanoma by Gene Transfer to Tumors and Tumor-specific CTL", University of Miami Cancer Institute, PI, Eckhard R. Podack, MD
- 1993 What's New in Surgical Oncology, Amer. College of Surgeons
- 1993 Search Committee, Breast Cancer Center Director, UPMC/PCI
- 1993-2000 Mellon/Dickson Prize Committee; University of Pittsburgh School of Medicine; Chair 1997-2000
- 1994 Search Committee, NSABP Chairman, UPMC
- 1994 External Advisory Committee, "Gene Therapy for Solid Tumors", Baylor College of Medicine, PI, Savio Woo, Ph.D.
- 1994-Present Executive Council, Society for Biologic Therapy; Vice President (1996); President 1998-2000; Immediate Past President 2000-2002.
- 1995-1996 UICC/American Cancer Society Fellowship Committee
- 1996 External Advisory Committee, "Gene Therapy of Cancer", Memorial Sloan-Kettering Cancer Institute, PI, Lucio Luzzatto, MD
- 1997 Site Visit Committee, National Institutes of Health, National Cancer Institute; Frederick Cancer Research Center, Branch Chief, John Ortaldo.
- 1997 UPMC/Health Sciences International Committee
- 1997 Site Visit Committee, National Institutes of Health, National Cancer Institute; Section of Tumor Immunology, Branch Chief, Jeffrey Schlom.
- 1997 Site Visit Committee, National Institutes of Health, National Cancer Institute; I RO1 CA76489-01 Dr. Donald L. Morton Polyvalent Vaccine: Phase III Trial in Stage IV Melanoma; John Wayne Cancer Institute; August 5, 1997.
- 1997-2000 Cardinal Bernardin Cancer Center External Advisory Council (Loyola University Medical Center)
- 1997-2003 Melanoma Research Foundation, Board of Trustees

1998	TK Immunotherapy Expert Panel; Rhone Polenc Rorer
1998	Search Committee, Chief of Urology University of Pittsburgh
1998-2001	Ohio State University Scientific Advisory Committee; Arthur G. James Cancer hospital and Research Institute
1998	Biosafety Committee, Mercy Hospital (Adenoviral p53 Gene Therapy)
1998	Clinical Trials Steering Committee; University of Pittsburgh Medical Center
1998	Search Committee, Chief of Medicine University of Pittsburgh
1998	Standing Committee for Faculty Recognition and Research Awards, U. Pittsburgh
1997-2001	Peer Review Committee on Clinical Research, Cancer Control and Epidemiology; American Cancer Society
1999	Co-Director, Gene Therapy Program, SmithKline Beecham
1999	Co-Director, Protein Agent Strategic Initiative, SmithKline Beecham
1999-2000	Co-chair, Cancer Gene Therapy Committee of the American Society of Gene Therapy (ASGT)
2000	Sponsored, developed, and ran SB Symposium on "Tissue Repair and Wound Healing, Therapeutic Opportunities" Upper Providence, March 2-3, 2000.
2000	Grand Rounds, University of Pennsylvania Cancer Center; In Vivo Veritas – Lessons for Immunotherapy of Cancer; April 20, 2000.
2001	New York Academy of Sciences; Codirector; Symposium on Use of Viral Vectors for Target Validation with Tom Kost; December 4, 2001
2001	Study Section; Chemoprevention of tobacco-related cancers in former smokers: preclinical studies; RFA CA-02-008; December 6, 2001; Nov 4, 2002.
2002	American Society of Clinical Oncology Discussant; Annual Meeting, Orlando; Enhancing the antitumor effects of IL-2.
2002	Amer. Association for Gene Therapy; Meet the Professor Session – Immunology
2002	James Ewing Young Investigator Award for Clinical Research; Society of Surgical Oncology; Selection Committee
2002	External Advisor/ PI Savio Woo Mt. Sinai School of Medicine; Gene Therapy of

Colorectal Cancer

- 2002 Scientific Advisory Board, Association for Cancer Gene Therapy
- 2002 Guest Editor with Brigitte Autran, Hervé Fridman, and Bruce Walker. Special Issue – Vaccine [Volume 20 Supplement 4 19 December 2002]: Therapeutic Vaccines Against HIV and Cancers 23-26 June 2002, Les Pensières, Veyrier-du-Lac, Annecy, France; Organized by the Merieux Foundation with the support of Aventis Pasteur and Merial
- 2003 External Advisor/PI Thomas Kupper Harvard Medical School; NCI funded Melanoma SPORE
- 2003 Coorganizer with Michael Atkins and Laurence Zitvogel: FOCiS-iSBTc Satellite Symposium on Cellular Immunology and the Immunotherapy of Cancer V Thursday Afternoon May 15th, 2003
- 2003 Coorganizer 1st International Society of Biological Therapy Workshop on Proteomics, Genomics and High Content Cellular Screening in Patients with Cancer with Ena Wang, MD, PhD Dept. of Transfusion Medicine, National Institutes of Health; Nabil Hanna, PhD, Chief Scientific Officer, IDEC Pharmaceuticals Masur Auditorium, National Institutes of Health; October 30, 2003;

Honors

- 1971-1974 Honors Program in Medical Education
- 1982 Robert H. White Award for Excellence in Teaching, Univ. of Rochester
- 1986 Edith Hamilton Cancer Lecturer, Genesee Hospital/Wasyl Pluta Cancer Center, Rochester, NY
- 1987 Special Achievement Award; Dept. Health & Human Services, NIH.
- 1988 4th Vender Lecturer, Northwestern University; Evanston, Illinois
- 1989 Visiting Professor, Dept. of Surgery, Duke University; Durham, NC
- 1990 Coorganizer Keystone Symposium on Cellular Immunity and the Immunotherapy of Cancer, Park City, UT
- 1990 Virginia Mason Res. Center Distinguished Lecturer, Seattle WA
- 1990 14th Annual Lecturer, Internal Medicine Group; New Orleans, LA.

- 1991 Annual John Palmer Lecturer, Univ. of Toronto; Toronto, Ontario
- 1991 Tenth Hinshaw Lecturer, Univ. of Rochester, Rochester, New York
- 1992 Coorg. Keystone Symp.on Melanoma and Biology of the Neural Crest, Taos, NM
- 1992 Coorganizer, Roundtable Roussel-UCLAF on Cytokines and Cancer, Versailles, France, 10/7-9/92
- 1992 Chairman, Cancer Care Committee, Pittsburgh Cancer Institute
- 1993 Organizer, Symposium Molecules to Medicine, 2nd Inter. Congress on Biol. Response Modifiers; San Diego, CA; 1/29/93
- 1993 Coorganizer Keystone Symposium on Cellular Immunity and the Immunotherapy of Cancer II, Taos, NM; 3/17-24/93.
- 1993 Cochairman, Symp.Tumor Immunology, Denver CO; AAI/CIS 5/29/93.
- 1993 Visiting Professor of Surgical Oncology; Academia Sinica/Veteran's General Hospital; Taipei, Taiwan; 6/27/93-7/15/93.
- 1994 NIH Committee (Mail Ballot-Scientific Meetings and Conferences).
- 1994 Sommer Memorial Lecture, Portland, Oregon; April 21-22, 1994.
- 1994 Site Visit Chairman, NIH PO1-CA64254-01. Brain Tumor Gene Therapy; June 14-16, 1994
- 1994 Plenary Speaker, Centennial Celebration of the Royal Victoria Hospital; June 9, 1994
- 1995 EJ Tabah Lectureship, McGill University; March 13-15, 1995.
- 1995 First Peter Finke Lecturer; Memorial Sloan Kettering; Sept. 15, 1995.
- 1995 Coorganizer, New York Academy of Sciences Symposium: Interleukin 12; An important regulatory cytokine. November 9-12, 1995; NYC.
- 1996 Reverse Site Visit Committee Stanford University Medical Center General Clinical Research Center; July 30, 1996; Rockville, MD.
- 1996 Site Visit Committee; Laboratory of Experimental Immunology; Div. of Basic Sciences; NCI; Frederick, MD; November 5, 1996.
- 1996 McCutcheon Lectureship, University of Toronto; November 8, 1996.

- 1997 Distinguished Lecturer, Robert Wood Johnson UMDNJ; January 15, 1997.
- 1997 Coorganizer, Keystone Symposium on Cellular Immunology and the Immunotherapy of Cancer; Copper Mountain, February 1-7, 1997.
- 1997 Distinguished Lecturer, Westmoreland Hospital; Greensberg, PA
- 1997 University of Pittsburgh Cancer Institute Scientific Leadership Award
- 1998 Coorganizer, 5th International DC Meeting; Pittsburgh; September 24-28, 1998.
- 1998 Coorganizer, 13th Society for Biological Therapy Meeting, Pittsburgh; October 21-21, 1998.
- 1998-2001 Visiting Professor of Oncology, Shanghai Medical University (SMU)
- 2000 Co-Organizer, 4th Keystone Symposium on Cellular Immunology and the Immunotherapy of Cancer; Santa Fe, NM January 21-27, 2000
- 2000 Keynote Speaker, American Association of Cancer Research Special Meeting on Melanoma; The Woodlands, Texas May 3-7, 2000.
- 2000 Coorganizer, American Association of Cancer Research Special Meeting on Cytokines; Vail Colorado; September 20-23, 2000.
- 2000 Visiting Professor; Wistar Institute; Philadelphia, PA; April 28, 2000.
- 2001 Plenary Lecture, Japanese Surgical Society, April 2001
- 2002 Danny Hill Tumor Immunology Lectureship, University of Western Australia, Perth, Australia
- 2002 Surgical Grand Rounds, Columbia University August 29, 2002.
- 2002 Surgical Grand Rounds, Montefiore Hospital/Albert Einstein University; October 21, 2002.
- 2003 Surgical Forum; Plenary Speaker Society Surgical Oncology; March 10, 2002. Los Angeles, CA

RESEARCH GRANTS

9/92-10/96	NIH 1U01 CA 58272-01 "Locoregional ALT with autologous IL-2, activated NK cells", Principal Investigator, \$800,000.
9/92-10/94	NIH 1P01 CA59371-01 "Gene Therapy of Cancer - Immunological Approaches", Principal Investigator, \$750,000.
9/92-8/94	NIH 1ROA CA56088-01A1 "Specific T-cell Recognition of Human Melanoma", Principal Investigator, \$100,000.
8/93-9/97	NIH 1RO1 CA 57804-01A1 "Identification of Class I Presented Peptides", Co-Principal Investigator, \$466,808.
10/91-10/93	VA RAG "Breaking Tolerance with Cytokine Based Cancer Immunotherapy", Coinvestigator, \$68,000.
1995-1998	Schering Plough Research Institute. "Gene Therapy with IL-4, IL-10, vIL-10, and interferon alpha", Principal Investigator, \$1,000,000.
4/96-5/01	NIH (1RO1CA63350-01) "Dendritic Cell Based Therapies Designed for Murine Tumors", Co-Principal Investigator, \$1,060,434.
2/94-3/99	NIH (NCI-CM-47001-64) "Clinical Trials of Biologic Response Modifiers", Principal Investigator, \$2,874,341.
4/94-3/96	NIH (NCI-1R21CA69106-01) "Emulsion Based Therapy of Cancer", Coinvestigator, \$96,000.
7/95-6/99	NIH (NCI-1P01 CA 68067-01) "Cytokine Gene Therapy of Cancer", Principal Investigator, \$4,261,226.
11/95	NIH (1 R13 CA68006-01) "Interleukin 12: Immunology of a Regulatory Cytokine", Principal Investigator, \$47,900.
10/96	NIH 1P01 DE12321. "Vaccine Development for Head and Neck Cancer," Principal Investigator, Project 3. PI Dr. Theresa Whiteside, \$2,500,000.
8/96-6/00	NIH NCI 1U01CA74329-01. "Clinical Trials of Biological Response Modifiers. Principal Investigator, \$550,951.
02/97	NIH 1R13CA73576-01. "Conference on Cellular Immunology of Cancer," Principal Investigator, \$50,000.
04/97-03/02	NIH NCI-1RO1CA73816-01."Dendritic cells elicit effective antitumor responses," Coinvestigator (PI, Walter J. Storkus), \$1,429,008.

7/97-6/02	NIH NCI 1PO1DE12321-01. "Vaccine Development for Oral Carcinoma." Principal Investigator, Project 1. PI Dr. Theresa Whiteside, \$2,600,000
11/97	NIH NCI-1PO1CA73743-01. "DC Biology and Therapy", CoPI, \$9,978,000.
11/97	NCI-1K12CA76906-01. "Biologic Therapy Research Career Development Program." Co Principal Investigator, \$1,660,371.
1998	Argonex, Inc. "Identification of T-cell targets in colorectal and ovarian carcinoma." Principal Investigator, \$137,952.
01/98-12/02	NIH NCI 1PO1CA7374301A1 "Dendritic Cell Biology and Therapy. Principal Investigator, \$9,021,156.
09/98-09/02	PAR-97-080 "Novel HIV Therapies: Integrated Preclinical/Clinical Program"; Project 4: Dendritic Cell Therapy for HIV: Role of Cytokines on Enhanced T-cell Function"; Total \$1,380,101; PI Michael Lotze, CoPI Cara Wilson.
06/01/99-05/30/04	"Research Training in AIDS, STDs and Emerging Infections;" PI David Tweardy; Total \$747,573; Mentor/Training Faculty
03/00-02/05	NIH NCI 1RO1CA82016-01A29 "Melanoma Associated T & DC Dysfunction and Death. Principal Investigator, \$1,676,406.
04/00-03/05	NIH NCI 2PO1CA68067 Cytokine Gene Therapy of Cancer, CoPI, \$9,861.090
10/01/02	Submitted to the NCI; "Integrating NK and DC into Cancer Care"; 5 projects; 5 cores; Principal Investigator, CoPI, Ronald Herberman; \$19,811,383.

PATENTS

Storkus Walter, Michael T. Lotze. Rapid Isolation of T-cells Epitopes from viable cells by mild acid elusion. (November 23, 1999; 5,989,565)

Baar Joseph, Michael T. Lotze. Interferon/gamma inducible cytokine expression plasmids.

Tahara Hideaki, Michael T. Lotze. In situ injection of antigen-presenting cells with genetically enhanced cytokine expression. U Pittsburgh Reference Number 181; 09/395,836. Filed September 14, 1999; issued August 6, 2002.

Thomson Angus, Lu Lina, Michael T. Lotze - "Genetic engineering of dendritic cells for immunosuppressive therapy" Disclosure

Tahara Hideaki, Michael T. Lotze. Modified interferon gamma inducing factor (IGIF/IL-18) sequence which can be secreted as an active form IL-18 protein from mammalian cells.

Angus W. Thomson, Lina Liu, Michael T. Lotze. Genetically Modified Antigen Presenting Cells for the Induction of Immunointolerance.

Siamak Agha-Mohammadi, Michael T. Lotze. PCT/US01/31138. High Efficiency-Regulatable Expression System

FILMS

1986 Demonstration of intraoperative ultrasound imaging, CO₂ laser surgery and CUSA ultrasonic dissection for a right hepatic lobectomy for hepatoma; Spectacular Problems in Surgery, ACS

1992 Immunotherapy Video Handbook, Proleukin^R

1995 Resection of a Giant Lipoma; ACS Cine Forum, New Orleans, October 22-27, 1995.

BOOKS

- 1990 Cellular Immunity and the Immunotherapy of Cancer, Ed. Lotze MT, Finn OJ, Wiley-Liss; New York, 1990.
- 1994 Current Cancer Therapy, Ed. Kirkwood JM, Lotze MT, and Yasko J; 1998 Current
1996 Science, Philadelphia, 1994; 2nd Edition 1996; 3rd Edition 1998; 4th Edition 2001.
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2001
- 1996 Interleukin 12: Cellular and Molecular Immunology of an Important Regulatory Cytokine. Ed. Michael T. Lotze, New York Academy of Sciences, NY.
- 1997 Regional Therapy of Advanced Cancer, Ed. Lotze MT, Rubin JT; JB Lippincott, Philadelphia, 1997.
- 1999 Dendritic Cells: Biology and Clinical Applications; Ed. Michael T. Lotze, Angus W.
2001 Thomson; Academic Press; London; 2nd Edition 2001
- 2002 Tumor Immunology: Molecularly Defined Antigens and Clinical Applications. Ed. Giorgio Parmiani and Michael T. Lotze; Taylor and Francis, London; 2002.
- 2003 Cytokine Handbook, 4th Edition. Ed. Angus W. Thomson, Michael T. Lotze; Academic Press, London; expected Spring 2003.
- 2004 Measuring Immunity, 1st Edition. Ed. Michael T. Lotze, Angus W. Thomson; Academic Press, London, expected Fall 2004.

SCIENTIFIC ADVISORY BOARDS

- 1990-1994 Cellco, Inc. Rockville, MD; Hollow-fiber growth of cells
- 1995-1998 Canji, Inc; Subsidiary of Schering Plough, Inc. Gene Therapy [p53, RB, cytokines]
- 2002-current Immunodesigned Molecules, Inc. Parisian company involved with cell/DC therapy
- 2002-current Tissue Informatics, Inc. Pittsburgh company involved with machine vision tissues
- 2002-current CureTech, Inc. Tel Aviv company involved with developing antibody therapies
- 2002 BioMeasure; Boston; consultant on therapeutic vaccines for cancer
- 2003 MediGene, Munich; consultant on therapeutic vaccines for cancer

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ABSTRACTS AND PRESENTATIONS

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6. Lotze, M.T.: Recent studies with the use of T cell growth factor.
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7. Harvey, J.H., Lotze, M.T., Bias, W.B., Hsu, S., Arnett, F.C., and Stevens, M.B.: Heterogeneity of DRw4 in a Chippewa population. Arth. & Rheum. 23:688, 1980.
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Presented: Norris Cotton Cancer Center; Dartmouth University; Hanover, NH; December 16, 1985.
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Presented: Society of University Surgeons, Richmond, Virginia, February 3, 1986.
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Presented: Freie Universitat, Berlin, West Germany, March 4, 1986.
34. Lotze, M.T. and Rosenberg, S.A.: Current results with LAK and IL-2 in the treatment of cancer.
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 45. Lotze, M.T.: Possible clinical applications of Interleukin-2.
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Presented: Glenolden Labs, E.I. DuPont, Glenolden, PA, May 29, 1986.

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Presented: Grand Rounds, Mary Imogene Bassett Hospital, Cooperstown, NY, July 2, 1986.
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Presented: Sixth International Congress of Immunology, Toronto, Canada, July 7-8, 1986.
50. Lotze, M.T. and Rosenberg, S.A.: Immunotherapy of cancer with LAK cells and recombinant IL-2.
Presented: Chemotherapy of experimental and clinical cancer. Gordon Conference, New London, NH, July 20-25, 1986.
51. Lotze, M.T. and Rosenberg, S.A.: LAK cells and IL-2 in cancer therapy.
Presented: Congress on Research in Lymphokines and Other Cytokines, Basic Biology and Strategies for Clinical Application, Boston, MA, August 13, 1986.
52. Lotze, M.T. Clinical trials with IL-2 and monoclonal antibodies.
Presented: Oncogen, Seattle, Washington; August 21, 1986.
53. Lotze, M.T. Overview of LAK and IL-2 Therapy.
Presented: Ochsner Clinic; New Orleans, LA; October 20, 1986.
54. Lotze, M.T., Sugarbaker, P.H., Shawker, T.H. and Fortula, R.H.: Demonstration of intraoperative ultrasound imaging, CO₂ laser surgery and CUSA ultrasonic dissection for a right hepatic lobectomy for hepatoma.
Presented: Spectacular Problems in Surgery 72nd Annual Congress, American College of Surgeons, October 21, 1986.
55. Lotze, M.T., Biology of IL-2 and rationale for its clinical application.
Presented: In New Approaches to the Immunotherapy of Cancer; Conferences of the Combined Clinical Staff, NIH; October 28, 1986.
56. Lotze, M.T., Robert, K., Custer, M.C., Segal, D.A. and Rosenberg, S.A. Specific binding and lysis of human melanoma by IL-2 activated cells coated with anti-T3 or anti-Fc receptor crosslinked to anti melanoma antibody: A possible approach to the immunotherapy of cancer.
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57. Vetto, J.T., Papa, M.Z., Lotze, M.T., Chang, A.E. and Rosenberg, S.A. Reduction of toxicity of interleukin 2 and lymphokine activated killer cells in human by the administration of corticosteroids.
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59. Lotze, M.T. Treatment of hepatocellular carcinoma.
Presented: Hepatocellular Carcinoma; Conf. Combined Clinical Staff, NIH; Dec. 3, 1986.
60. Cohen, P., Lotze, M., Rosenberg, S., and Jaffee E.: The immunopathology of sequential tumor biopsies in patients treated with interleukin-2.
Presented: 76th Annual Meeting Int. Acad. Pathology; Chicago; March 9, 1987.
61. Lotze, M.T. Clinical use of interleukin-2.
Presented: Joint Mtg. French and Swiss Soc. of Immunology; Geneva, April 23, 1986.
62. Tomita, S., Lotze, M.T. and Rosenberg, S.A.: Clonal analysis of tumor infiltrating lymphocytes against human malignant melanoma. Fed. Proc. 46:1195, 1987.
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Presented: 71st Annual Meeting FASEB; Washington, D.C.; March 2, 1987.
64. Lotze, M.T. Adoptive Immunotherapy of Cancer.
Presented: 4th Annual Advances in Cancer Treatment Research Symposium; New York, March 27, 1987.
65. Lotze, M.T. Current status of NIH trials using IL-2.
Presented: Rec. Adv. in Cancer Ther.; University of Colorado; Denver, March 10, 1987.
66. Lotze, M.T.: New approaches to the immunotherapy of cancer.
Presented: American Cancer Society; Rockville, MD, March 7, 1987.
67. Lotze, M.T.: Adoptive immunotherapy.
Presented: Keynote Address: 2nd International Head & Neck Oncology Research Conference. Arlington, Virginia; September 10-12, 1987.
68. Garra, B.S., Insana, M.F., Fisher, B., Lotze, M.T., Shawker, T.H., Wagner, R.F., Russell, M.A.: Quantitative ultrasonic detection of liver changes in patients undergoing interleukin-2 therapy.
Presented: 13th International Symposium on Ultrasound Imaging and Tissue Characterization. Arlington, VA; June 7, 1988.
69. Lotze, M.T.: Disturbing homeostasis: New approaches to the immunotherapy of cancer.
Presented: Distinguished Visiting Professor; Uniformed Services, University for the Health Sciences, Bethesda, MD; January 28, 1988.

70. Lotze, M.T.: 1) Therapy with monoclonal antibodies and IL-2; and, 2) Clinical use of lymphokines.
Presented: Bristol Myers Spring Scientific Symposium, Wallingford, CN; March 3, 1988.
71. Lotze, M.T.: Disturbing hemostasis: New approaches to the immunotherapy of cancer.
Presented: Immunotherapeutics; Spring Branch Memorial Hospital, Houston, TX; March 19, 1988.
72. Lotze, M.T.: New approaches to the immunotherapy of cancer.
Presented: Yale University, March 22, 1988.
73. Lotze, M.T.: Immunotherapy of cancer.
Presented: Cancer Center Grand Rounds Howard University, Washington, DC; March 31, 1988.
74. Lotze, M.T.: Preclinical studies with Interleukin-4.
Presented: Eastman Pharmaceuticals, Great Valley, PA April 12, 1988.
75. Lotze, M.T.: Disturbing homeostasis: recent results of ongoing immunotherapy trials at the NCI.
Presented: Recent Updates in Basic Research and Clinical Development of Biological Response Modifiers, Chicago, IL; April 13, 1988.
76. Lotze, M.T.: Disturbing homeostasis: Current status of NCI immunotherapy trials.
Presented: Interleukin-2: Clinical and Biological Update, Roswell Park Memorial Institute, Buffalo, NY; April 20, 1988.
77. Lotze, M.T.: Human tumor antigens defined by cytotoxic and proliferative T cells. J. Cell Biochem 12E:121, 1988.
Presented: Cetus-Triton Biosciences UCLA Symposium Human Tumor Antigens and Specific Tumor Therapy, Keystone, CO; April 26, 1988
78. Kawakami, Y., Custer, M., Rosenberg, S.A., and Lotze, M.T.: Human interleukin-4 (IL-4) inhibits Interleukin-2 (IL-2) induction of human lymphokine activated killer (LAK) activity from peripheral blood and spleen cells. FASEB J 12:A660, 1988.
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79. Jablons, D., Keenan, A., Yolles, P.S., Fisher, B., and Lotze, M.T.: The use of computerized Tech-99 DISIDA hepatobiliary scanning to evaluate liver function in the preoperative evaluation of patient's undergoing liver resection.
Presented: 41st meeting of the Soc. of Surg. Oncology, New Orleans, LA.
80. Lotze, M.T.: Immunotherapy of melanoma.
Presented: Melanoma Update, St. Louis Community Oncology Program, St. Louis, MO; June 10, 1988.
81. Sakahara, H., Carrasquillo, J.A., Lotze, M.T., Reynolds, J.C., Bryant, G., Perentesis, P., Lerario,

L., Green, S., and Larson, S.M.: Effect of Interleukin-2 on biodistribution of I-131 labeled monoclonal antibody 9.2.27. J. Nucl. Med. 29:897, 1988.

Presented: Society of Nuclear Medicine, San Francisco, CA; June 1988.

82. Sakahara, H., Reynolds, J.C., Carrasquillo, J.A., Lora, M., Lotze, M.T., and Larson, S.M.: In vitro complex formation and serum clearance of mouse monoclonal antibody. J. Nucl. Med. 29:758, 1988.

Presented: Society of Nuclear Medicine, San Francisco, CA; June 1988;

83. Huang, C.M., Ruddel, M., Sliva, C., Elin, R.J., Lotze, M.T., and Rosenberg, S.A.: The effect of Interleukin-2 (IL-2) on tests of liver function.

Presented: American Association of Clinical Chemistry

84. Lotze, M.T.: Immunotherapy of cancer.

Presented: 14th SVU World Cong., Chevy Chase, MD; September 15, 1988.

85. Lotze, M.T.: Use of lymphokines in therapy.

Presented: XIII International Congress of Allergy and Clinical Immunology, Montreux, Switzerland; October 21, 1988.

86. Lotze, M.T.: Clinical application of lymphokines.

Presented: VIth International Lymphokine Workshop, Evian, France; October 25, 1988..

87. Kawakami, Y., Rosenberg, S.A., and Lotze, M.T.: Interleukin-4 (IL-4) promotes the growth of TIL specific for human autologous melanoma.

Presented: 6th International Lymphokine Workshop, Evian, France; October 25, 1988.

88. Kawakami, Y., Rosenberg, S.A., and Lotze, M.T.: Interleukin-4 (IL-4) promotes the growth of tumor infiltrating lymphocytes (TIL) specific for human autologous melanoma.

Presented: 6th International Lymphokine Workshop, Evian, France; October 26, 1988.

89. Lotze, M.T.: Current Status of Immunotherapy Trials by the Surgery Branch of NCI.

Presented: President's Cancer Panel; Chair, Dr. Armand Hammer; November 7, 1988.

90. Jablons, D.J., McIntosh, J.D., Mute, J.J., Nordan, R.P., Rudikoff, and Lotze, M.T.: Induction of Interferon B₂/interleukin-6 (IL-6) by cytokine administration and detection of circulation interleukin-6 in the tumor bearing host.

Presented: Regulation of the Acute Phase and Immune Responses: A new Cytokine; New York Academy of Sciences, NY; December 12, 1988.

91. Lotze, M.T.: IL-4 regulates responsiveness to IL-2.

Presented: NIH-Wide Immunology Seminar Series, Bethesda, MD. December 13, 1988.

92. Lotze, M.T.: T Cell reactivity against human cancer.

Presented: Hammer Symposium; LaJolla, CA, January 5, 1989.

93. Lotze, M.T.: Interleukin-2 /LAK cell therapy.

Presented: Oncology Viewpoints, Mod. W.L. McGuire, San Antonio, TX, Jan. 10, 1989.

94. Lotze, M.T.: LAK cells.
Presented: Student Immunology Lecture Series; Bethesda, MD; February 8, 1989.
95. Lotze, M.T.: Cardiac and hemodynamic effects of IL-2.
Presented: Gerontology Research Center, NIA; Baltimore, MD, February 9, 1989.
96. Cornetta, K., Culver, K., Morecki, S., Kasid, A., Morgan, R., Aebersold, P., Lotze, M.T., Rosenberg, S., Anderson, W.F. and Blaese, R.M.: Retroviral vectors and Human Tumor infiltrating lymphocytes: In vitro findings.
Presented: 30th Annual Meeting, American Society of Hematology.
97. Rosenberg, S.A., Lotze, M.T., Yang, J., Chang, A.E., Seipp, C., Simpson, Results of treatment of 650 patients with interleukin-2.
Presented: 109th Annual Meeting, American Surgical Assoc.
98. Lotze, M.T.: "Studies of T Cell Growth Factors: New Approaches Using IL-2, IL-4 and IL-6".
Presented: University Wisconsin Oncology Grand Rounds, Madison Wisconsin, January 25, 1989.
99. Jablons, D., Bolton, Merton, S., Rubin, M., Pizzo, P., and Lotze, M.T.: Interleukin-2 (IL-2) administration to cancer patients alters neutrophil FcR expression, superoxide response and chemotaxis:
Presented: 73rd Annual Meeting, FASEB, New Orleans; March 23, 1989.
100. Lotze, M.T.: Immunotherapy of cancer.
Presented: Memorial-Sloan Kettering Institute, NY. May 19, 1989.
101. Lotze, M.T., and Balch, C.: Co-chairs, T cells and Tumor infiltrating lymphocytes, Minisymposium.
Presented: American Assoc. Cancer Research Annual Meeting, San Francisco, May 25, 1989.
102. Lotze, M.T.: Toxicity of IL-2 treatment.
Presented: Safety Assessment of Cytokines, USUHS, Bethesda, MD, May 23, 1989.
103. Lotze, M.T.: Biologic therapy: An Effective Fourth Modality of Cancer Treatment.
Presented: 75th Anniversary, Daniel Van Hoed Cancer Radiobiologic Institute; Rotterdam, The Netherlands, June 2, 1989.
104. Lotze, M.T.: Biologic Therapy of Cancer
Presented: Ohio State University, Columbus Ohio, June 5, 1989.
105. Lotze, M.T.: Preclinical and clinical application of IL-4.

Presented: Therapeutic Applications Meeting Biologic Resp. Mod. Program; Frederick MD, June 15, 1989.

106. Lotze, M.T.: Cytokine therapy of patients with cancer.
Presented: Plenary Session, Immune Intervention; 7th International Congress of Immunology Berlin; August 1, 1989.
107. Kawakami, Y., Lotze, M.T.: Interleukin-4 promotes growth of human tumor infiltrating lymphocytes.
Presented: 7th International Congress of Immunology, Berlin; August 4, 1989.
108. Lotze, M.T.: Mechanisms of Immunologic Antitumor therapy: Lessons from the laboratory and clinical applications.
Presented: 2nd International Conference on Cells Invading the Rejecting allograft; Pittsburgh, September 15, 1989.
109. Lotze, M.T.: Immunologic effects of IL-4 in man
Presented: NIH Immunology noon seminar; October 24, 1989.
110. Rubin, J., Lotze, M.T.: Interleukin-2 and the adoptive therapy of cancer.
Presented: Int. Interleukin-2 Symposia. Manchester, United Kingdom; October 25, 1989.
111. Lotze, M.T.: Cytokines and Cancer Therapy.
Presented: Williamsburg Immunology Conference, Williamsburg, November 18, 1989.
112. Lotze, M.T.: Biologic Therapy: An effective fourth modality of cancer treatment.
Presented: Surgical Grand Rounds, Duke University, November 29, 1989.
113. Lotze, M.T.: T cells and the treatment of cancer patients.
Presented: Surgical Grand Rounds, University of Utah, Salt Lake City, Utah; January 31, 1990.
114. Lotze, M.T.: Fundamentals of cancer ontogeny and immunotherapy.
Presented: Graduate Seminar, University of Utah, Salt Lake City, Utah; February 1, 1990.
115. Lotze, M.T.: Use of recombinant human IL-2 and IL-4 in vitro and in vivo to expand TIL's. J. Cellular Biochem, 14B:61, 1990.
Presented: UCLA Symposium on Cellular Immunity; Park City, Utah; and the immunotherapy of Cancer; February 1, 1990.
116. Jablons, D.H., Lotze, M.T.: Enhanced expansion of cells with lymphokine activated killer cell (LAK) activity from human bone marrow and peripheral blood - implications for immunotherapy. J. Cellular Biochem 14:72, 1990.
Presented: UCLA Symposium on Cellular Immunity and the immunotherapy of Cancer; Park City, Utah; February 1, 1990.
117. Lotze, M.T.: Progress in immunotherapy.

Presented: ACS - UVA Conference on cancer; Charlottesville, VA, February 16, 1990.

118. Lotze, M.T.: Application of Biologic therapy to patients with cancer.
Presented: Surgical Grand Rounds, University of Virginia; Charlottesville, VA; February 16, 1990.
119. Lotze, M.T.: Application of cytokines to the treatment of cancer.
Presented: Advances in cancer diagnosis and therapy; Fort Lauderdale FL; March 1, 1990.
120. Lotze, M.T.: Adoptive immunotherapy of cancer.
Presented: 4th Annual advances in cancer treatment research (Montefiore/Albert Einstein); New York, NY; March 8, 1990.
121. Lotze, M.T.: Use of cytokines in cancer treatment.
Presented: First International Cytokine Congress; Florence, Italy; March 26, 1990.
122. Lotze, M.T.: Biologic therapy - an effective form of cancer treatment.
Presented: 14th Annual lectureship, Internal Medicine Group; New Orleans, LA; March 29, 1990.
123. Lotze, M.T.: Advances in cancer immunotherapy.
Presented: Cancer Progress V/ Communitech Market Intelligence Inc; New York, NY; April 23, 1990.
124. Lotze, M.T.: Tumor Immunology
Presented: FAES/Immunology 502; Cell Biology of Immunity and Inflammation; Bethesda, MD; May 1, 1990.
125. Lotze, M.T.: Restricted T cell receptor usage in recognition of human melanoma.
Presented: Dept. of Molecular Genetics and Biochemistry, University of Pittsburgh; Pittsburgh, PA; May 7, 1990.
126. Bolton, E., Custer, M. and Lotze, M.T.: Interleukin-4 (IL-4) alters monocyte phenotype in vitro and in vivo.
Presented: Amer. Assoc. Cancer Res.; Washington, D.C.; May 31, 1990.
127. Stotter, H., Haas, H., Lotze, M.T. and Rosenberg, S.A.: Pretreatment of renal cell cancer (RCC) patients with alpha interferon (IFN α) and Interleukin-2 (IL-2) prior to nephrectomy.
Presented: ASCO, Washington, D.C., May 22, 1990.
128. Lotze, M.T.: Biologic Response Modifiers - Clinical Trial Research.
Presented: Colorectal Cancer Symp./Brown University, Providence, RI; June 2, 1990.
129. Kawakami, Y., Kumar, V., Hood, L., Rosenberg, S.A. and Lotze, M.T.: Unique TCR

rearrangements in melanoma TIL.

Presented: Amer. Assoc. Immunology Mtg; New Orleans, LA, May 6, 1990.

130. Lotze, M.T.: Adoptive Immunotherapy of Cancer.
Presented: Amer. Assoc. Immunology/Plenary Session; New Orleans, LA: May 6, 1990.
131. Lotze, M.T.: T-Time: Use of T-cell growth factors to treat patients with cancer.
Presented: Clinical Center Grand Rounds/NIH; Bethesda, MD; August 1, 1990.
132. Lotze, M.T.: Treatment of HCC (moderator) and immunological modalities of treatment;
Radiological diagnosis of HCC (with Irwin Feuerstein).
Presented: Hepatocellular carcinoma in North America; Bethesda, MD; Sept. 26-27, 1990.
133. Choyke, P. L., Miller, D.L, Lotze, M.T., Whites, J. M., Ebbitt B. Delayed reactions with non-ionic contrast media in association with IL-2 treatment.
Presented: 76th Scientific Assembly of the Radiol. Soc. of North Amer.; Nov. 25, 1990.
134. Lotze, M.T.: Advances in cancer immunotherapy.
Presented: Amer. Coll. Surgeons Course, San Francisco, CA; October 12, 1990
135. Lotze, M.T.: Adoptive Immunotherapy - Current Status.
Presented: Clin. Immunology Society, Chicago, Illinois; November 9, 1990.
136. Lotze, M.T.: Treatment of metastatic colorectal cancer.
Presented: Annual Pittsburgh Cancer Conference; December 7, 1990
137. Zeh, H.J. III, Lotze M.T., Wang S. Detection of cytokine mRNA in mitogen activated peripheral blood lymphocytes by RT-PCR. J Immunother 11:152, 1992.
Presented: Society of Biologic Therapy, Pittsburgh, PA; November, 1991.
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Presented: Society of Biologic Therapy, Pittsburgh, PA; November, 1991
143. Leder G.H., Finley G.C., Rubin J.T., Pipas J.M., Law J, Lotze M.T. Mutant p53 as a Target for Immune Recognition. J Immunother 11:131-132, 1992.
Presented: Society of Biologic Therapy, Pittsburgh, PA; November, 1991
144. Elder E.M., Kuebbing D., Lotze M., Whiteside T.L. Selection of Neomycin-Resistant TIL Obtained from Human Melanoma and Cultured in the Presence of IL-2 and IL-4. J Immunother. 11:125, 1992.
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145. Tahara, H. Zeh III, HJ, Mueller Gm, Gately MK, Gubler U, Wolf S, Robbins PD and Lotze MT. Cancer Vaccination using Interleukin-12 (IL-12) Gene Transfer.
Presented: Cold Spring Harbor Laboratory. September 22, 1992.
146. Storkus, WJ, Hauser, T, Lotze, MT, and Dawson JR. The role of peptide-self in class I-mediated NK resistance.
Presented: NK Workshop, Ft. Lauderdale, Fl., October 5, 1992.
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Presented: Society of Biologic Therapy, Williamsburg, VA; Nov. 1992.
149. Oppenheim M., Rao P., Lotze M.T. Serum Hyaluronan Levels Increase with Interleukin-2 Therapy. J Immunotherapy 13:68, 1993.
Presented: Society of Biologic Therapy, Williamsburg, VA; Nov. 1992.
150. Lotze MT. T-Cell Growth Factors and the Treatment of Cancer.
Presented: Cancer Ctr Grand Rounds, Univ. of Michigan, Ann Arbor, MI, Jan. 22, 1993.
151. Lotze M.T. IL-2 and IL-12 in the Treatment of Cancer.
Presented: Cetus/Chiron Corp.; Emeryville, CA; January 28, 1993.
152. Lotze MT and Herberman RB. 1) Overview of cytokine treatment: IL-2 to IL-12 2) Adoptive

- Immunotherapy of Cancer.
Presented: Molecules to Medicine Symposium. Second international Congress on Biol. Response Modifiers. San Diego CA, January 29-31, 1993.
153. Lotze MT. 1) New approaches to cytokine therapy; 2) Current status of adoptive immunotherapy.
Presented: Biologic Response Modifiers Steering Committee/Eastern Cooperative Oncology Group Meeting; Atlanta, GA. February 10-11, 1993.
 154. Tahara H, Zeh H, Pappo I, Nastala C, Robbins PD, Lotze MT. Tumor growth alteration with local Interleukin-12 secretion achieved by gene transfer.
Presented: Society of University Surgeons; Montreal, Quebec; February 11-13, 1993.
 155. Lotze MT. Workshop on Antagonists of Cytokine Function.
Presented: Keystone Symposium On "Cytokines and Cytokine Receptors: From Cloning to the Clinic"; Keystone, CO; February 6, 1993.
 156. Lotze MT. Transfer of Gene Marked TILs; Current Status and Future Goals.
Presented: International Congress on "Biological Response Modifiers: Present Clinical Use and Future Developments"; Naples, Italy; February 23, 1993.
 157. Lotze M.T. Gene Therapy of Cancer - Immunological Approaches.
Presented: NCI Gene Therapy Working Group; Rockville, MD; March 1, 1993.
 158. Storkus W.J. and Lotze M.T. Identification of Human Melanoma derived Epitopes Recognized by HLA-A2 Restricted, CD8+ Tumor Infiltrating Lymphocytes. J. Cell Biochem. 17D: ,1993.
Presented: Keystone Symposium on "Cellular Immunity and Immunotherapy of Cancer"; Taos, NM; March 19, 1993.
 159. Lotze M.T. Modulation of Murine Reactivity to Tumor and Transplantation Antigens. J. Cell. Biochem. 17D: ,1993.
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 160. Lotze M.T. and Whiteside T.L. Immunology and Biological Therapeutics.
Presented: PCI Scientific Retreat; Nemaquin, PA; March 28, 1993.
 161. Lotze M.T. Immunotherapy of Melanoma. Melanoma Res. 3:5-6, 1993.
Presented: Third International Conference on Melanoma; Special Lecture; Venice, Italy; April 3, 1993.
 162. Lotze M.T., Cai Q., Elder E., Rubin J, Pippin B., Jacob W., Chen Y., Nishihara K., Siegfried J., Storkus W., Edington H, Rosenstein M, Nastala C, Pappo I, Zitvogel L., Robbins P., Tahara H. Gene Therapy of Cancer - Immunological Approaches. J. Cell. Biochem. 17E:184, 1993.
Presented: Keystone Symposium on "Genetically Targeted Research and Therapeutics: Antisense and Gene Therapy"; Keystone, CO; April 12, 1993.

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Presented: Keystone Symposium on "Genetically Targeted Research and Therapeutics: Antisense and Gene Therapy"; Keystone, CO; April 12, 1993.
164. Tahara J., Zeh H. III, Pappo I., Nastala C., Robbins P.D., Lotze M.T. Tumor Growth Alteration with Local Interleukin 12 Secretion Achieved by Gene Transfer. *J Cell Biochem.* 17E. 247, 1993.
Presented: Keystone Symposium on "Gene Therapy"; Keystone, CO; April 12, 1993.
165. Lotze M.T. Biotherapy of Cancer.
Presented: CILAC XI; 11th Congresos Integrados Latino Americanos De Cancerologia; Cancun, Mexico; May 12, 1993.
166. Lotze MT and Levy R.: New approaches to immunotherapy and vaccines. against cancer. *J Immunol*, 150: 1A, 1993.
Presented: Joint Meeting of AAI and CIS, Denver, CO; May 22, 1993.
167. Lotze M.T.: A Tale of Two Cytokines: IL-4 and IL-12.
Presented: Multidisciplinary Program in Immunology/Stanford University Medical Center; Stanford, CA; June 2, 1993.
168. Lotze M.T.: Cytokine Gene Therapy of Cancer.
Presented: Monthly Lecture Series, New England Deaconess Hospital/Department of Surgery; Boston, MA; June 10, 1993.
169. Lotze MT: Eluted peptides from the MHC.
Presented: First International Conference on Engineered Cancer Vaccines and AIDS; San Francisco, CA; Sept. 30- October 3, 1994.
170. Pappo I, Tahara H, Nastala C, Robbins PD, Zeh HJ, Lotze MT. Cancer gene therapy with IL-12 alone or in combination with systemic IL-2 administration delays or prevents the growth of murine sarcomas.
Presented: Assoc. Academic Surgery. Hershey, PA; Nov. 13, 1993.
171. Pappo I, Wasserman K, Tahara H, Epperly MW, Bryant J, Lotze MT, Rosenstein MM. The systemic administration or local delivery of IL-12 combined with radiation (RT) delays the growth of a virulent murine melanoma.
Presented: Association Academic Surgery. Hershey, PA; November 12, 1993.
172. Nastala C, Edington H, Storkus WJ, Lotze MT. Recombinant Interleukin-12 (rmIL-12) Mediates Regression of Both Subcutaneous and Metastatic Murine Tumors.
Presented: 79th Annual Clinical Congress; American College of Surgeons. San Francisco, CA; October 10, 1993.
173. Leder GH, Oppenheim M, Rosenstein M, Shah N, Hoffman R, Simmons R, Lotze MT.

Aminoguanidine decreases IL-2 induced nitric oxide production but not the IL-2 induced capillary leak syndrome.

Presented: 3rd Int. Mtg; Biology of Nitric Oxide. Cologne, Germany; October 3, 1993.

174. Lotze MT. Interleukin 4 and Interleukin 12: Cytokines that regulate the immune response. *Annals of Hematology* 67:A173,S4, 1993.
Presented: Advances in Cytokine Development, Munich, Germany; October 27, 1993.
175. Lotze MT. Interleukin 4 Gene Therapy. *Annals of Hematology* 67:A171,111, 1993.
Presented: Cytokines and Growth Factors in Cancer: From Basic Research to Clinical Application. Munich, Germany, October 30, 1993.
176. Lotze MT. A Tale of Two Cytokines - IL-4 and IL-12 Regulate Immune Reactivity.
Presented: US-Japan Cancer Cooperative Research Program, "Cell Biology of the Host Antitumor Immune Response". Rockville, MD January 10-12, 1994.
177. Lotze MT. IL4 and IL12 Gene Therapy: Cytokines which Regulate the Immune Response.
Presented: First International Conference on Gene Therapy and Vaccines for Cancer. Washington, DC January 27, 1994.
178. Lotze MT. Gene Altered TIL: Background and Rationale.
Presented: Third International Symposium on The Biology of Renal Cell Carcinoma. Cleveland, OH March 8, 1994.
179. Leder G, Oppenheim M, Rosenstein M, Hoffman R, Lotze M, Beger H. NO does not mediate IL-2 induced antitumor effects. *Br. J. Surg* 81:102, 1994.
Presented: European Surgical Society, Fall 1994.
180. Smith DC, Jacob HE, Lotze MT, Branch RA, Adedoyin A, Stiff D, Ellis PG, Schwartz K, Trump DL. A phase I trial of interferon- α 2a (IFN- α) and all-transretinoic acid (ATRA): A pharmacokinetic assessment. *Proc. ASCO* 13:134 (#329), 1994
Presented: American Society of Clinical Oncology, May 1994.
181. Lotze MT. Gene Altered TIL: Background and Rationale.
Presented: Third International Symposium on The Biology of Renal Cell Carcinoma. Cleveland, OH March 8, 1994.
182. Lotze MT. Cytokine therapy of Cancer - IL-4 and IL-12 Regulate the Immune Response. *Brit. J. Cancer* 69:Supplement XXI, 2(S6), 1994.
Presented: BACR/ACP Annual Meeting. Birmingham, United Kingdom; March 28, 1994.
183. Maeurer M, Castelli C., Hurd S., Martin D., Storkus W., Lotze M. In vivo selection of melanoma variants lacking CTL-defined epitopes. *FASEB J* 8:A209 (1203), 1994.
Presented: Experimental Biology 94 (American Assoc. of Immunology); Anaheim, CA; April 24, 1994.

184. Qin L, Chavin KD, Tahara H, Robbins PD, Lotze MT, Bromberg JS. IL-10 gene transfer prlongs cardiac allograft survival. *FASEB JI*. 8:A738 (4285), 1994.
Presented: Experimental Biology 94 (American Assoc. of Immunology); Anaheim, CA; April 26, 1994.
185. Vokes E, Hochster H, Lotze M, Figlin R, Rybak ME. Recombinant human interleukin 4 (rhu IL-4) SCH 39400 in non-small cell lung cancer (NSCLC): preliminary results of a phase II investigation. *Proc. ASCO* 13:334 (#1107), 1994.
Presented: American Society of Clinical Oncology, Dallas, TX; May 1994.
186. Lotze MT. Interleukin 4 and IL-12 regulate immune responses.
Presented: Immunology Seminar, Pittsburgh Cancer Institute; May 1994.
187. Lotze MT. Role of Biologic Agents in Treating Pancreatic Cancer.
Presented: Arthur W. Beauregard International Cancer Conference. Cancer of the Pancreas: Challenge of the Nineties. Newport, Rhode Island; July 5-8, 1994.
188. Zitvogel L, Tahara H, Storkus WJ, Robbins P, Lotze MT. IL-12 Gene Therapy.
Presented: J.P. Lecocq Conference on Gene Therapy, Strasbourg, France; July 5-7, 1994.
189. Suminami Y, Elder EM, Lotze MT, Whiteside TL. Quantitative PCR for expression of the IL4 gene in biopsies of patients receiving genetically modified tumor vaccine.
Presented: Society of Biological Therapy Meeting, Silverado, CA; October 26-30, 1994.
190. Mayordomo JI, Storkus WJ, Deleo R, Lotze MT, DeLeo AB. A CTL clone specific for the Meth A murine sarcoma successfully treats established metastatic disease.
Presented: Society of Biological Therapy Meeting, Silverado, CA; October 26-30, 1994.
191. Zorina T, Mayordomo JI, Watkins S, Lotze MT, DeLeo AB, Ildstad ST. Culture of dendritic cells from murine bone marrow supplemented with GM-CSF and TNF-alpha.
Presented: Society of Biological Therapy Meeting, Silverado, CA; October 26-30, 1994.
192. Posner MC, Lembersky B, Landreneau RJ, Mullen E, Oppenheim M, Lotze MT. Combined modality therapy for operable carcinoma of the esophagus and gastroesophageal (GE) junction. *Proc. ASCO* 12:224 (686); 1993
Presented: American Society of Clinical Oncology, Orlando, May 1993.
193. Lotze MT. T-cell Factors in Cancer Immunotherapy.
Presented: Second International Cytokine Conference. Banff, Alberta October 5, 1994.
194. Berman R, Suzuki T, Tahara H, Robbins P, Lotze M. Human and viral Interleukin-10 (clL-10 and vIL-10) mediate opposing effects in tumor immunity.
Presented: Second International Cytokine Conference. Banff, Alberta October 4, 1994.
195. Lotze MT, Tahara H, Storkus WJ, Zitvogel L, Suzuki T, Berman R, Robbins PD. The non- α_c R T-

cell growth factors - cytokine gene therapy for cancer and transplantation. Gene Therapy 1:S4(A12), 1994.

Presented: Second Meeting of the European Working Group on Human Gene Transfer and Therapy. London, UK. November 19, 1994.

196. Lotze MT. Cytokine and Cytokine Gene Therapy of Cancer.
Presented: Seventh Meeting of the Japanese Society of Biologic Response Modifiers. Tokushima, Japan. December 2-3, 1994.
197. Lotze MT. The Immune System Connection to Cancer and Transplantation.
Presented: Cancer Research and Treatment; Beyond the Year 2000: Harnessing the Immune System. Sponsored by the Cancer Research Institute and Immunex; January 12, 1995; New York City, New York.
198. Lotze Michael T. Cytokines and Vaccines For Tumor Treatment.
Presented: Committee on Immunology, University of Chicago, January 16, 1995; Chicago, IL.
199. Lotze MT. Melanoma: From the clinic to the laboratory and back again.
Presented: Pittsburgh Surgical Society, January 23, 1995.
200. Lotze MT. Cytokines for Cancer Therapy.
Presented: International Biologic Response Modifier Symposium; January 27, 1995, Cancun, Mexico
201. Lotze Michael T. Discussant.
Ciba Foundation Symposium No. 195. T Cell Subsets in Infectious And Autoimmune Diseases, March 6-10, 1995, London, UK.
202. Rubin JT, Brumfield A, Dookeran K, Lotze MT. Tumor targetted delivery of sustained release high-dose 9-aminocamptothecin. Proc. AACR 36:452(2695), 1995.
Presented: 86th Annual Meeting of the American Association of Cancer Research, March 21, 1995; Toronto, Canada.
203. Mayordomo J, Frassanito AM, DeLeo RM, Storkus WJ, Lotze MT, DeLeo AB. Development of CTL-defined tumor peptide vaccine models using chemically induced BALB/c sarcomas. Proc. AACR 36:493(2936), 1995.
Presented: 86th Annual Meeting of the American Association of Cancer Research, March 21, 1995; Toronto, Canada.
204. Lotze MT. Tumor Immunology - The New Biology.
Presented: American Association for the Advancement of Science; February 21, 1995; Atlanta, GA.
205. Lotze MT. Effective Cytokine Gene Therapy of Melanoma - The Biologic Paradigm.
Presented: MD Anderson Symposium on Melanoma, February 22-24, 1995.

206. Tahara H, Zitvogel L, Storkus WJ, Robbins PD, Lotze MT. IL-12 gene therapy of cancer: animal models to clinical application.
Presented: International Symposium of Molecular Cell Biology of Macrophages '95. May 18-19, 1995; Japan.
207. Lotze MT. Tumor Immunology and Immunotherapy. Discussion of abstracts.
Presented: American Society of Clinical Oncology; 31st Meeting. May 20-23, 1995; Los Angeles, CA.
208. Mayordomo JI, Storkus WJ, Kast WM, DeLeo AB, Lotze MT. Peptide-pulsed dendritic cells and TAP-deficient cells serve as effective immunogens in tumor vaccines and therapies. Proc. ASCO 14:546(1809).
Presented: American Society of Clinical Oncology; 31st Meeting. May 20-23, 1995; Los Angeles, CA.
209. Zitvogel L, Tahara H, Robbins PD, Davis G, Lotze MT. Cancer gene therapy using a cytokine IL-12 and a costimulatory molecule B7.1. Proc. ASCO 14:226(583).
Presented: American Society of Clinical Oncology; 31st Meeting. May 20-23, 1995; Los Angeles, CA.
210. Lotze MT. Immunotherapy and Gene Therapy in Gynecologic Oncology.
Presented: Treatment of Cancers of Women Conference; June 23-24, 1995; Pittsburgh, PA.
211. Lotze MT. Antigen-specific T-cell responses in University of Pittsburgh tumor vaccine trials.
Presented: Immune Monitoring of Cancer Vaccine Clinical Trials; April 12, 1995; Bethesda, MD.
212. Lotze MT, Tahara H, Storkus WJ, Zitvogel L, Suzuki T, Berman R, Robbins PD. Approaches for IL-12 gene therapy: The non- α Rc T-cell growth factors - cytokine gene therapy for cancer and transplantation.
Presented: IL-12 in Infection: Prospects for Prophylactic and Therapeutic Intervention; May 15-17, 1995; The Cloister; Bethesda, MD.
213. Lotze MT. Vaccine Strategies.
Presented: 95th General Meeting American Society for Microbiology. May 21-25, 1995; Washington Convention Center; Washington, DC.
214. Lotze MT. Genetic Therapy for Cancer: Potential Role of rhIL-12.
Presented: Interleukin Twelve: Clinical Progress and Future Directions. Four Seasons Hotel and Resort; June 3-4, 1995; Irving, TX.
215. Lotze MT. New Regional and Systemic Treatment for Melanoma.
Presented: Southern Society of Clinical Surgeons. April 10, 1995, Pittsburgh, PA.
216. Lotze MT. IL-4 and IL-12 Gene Therapy

Presented: First PCI Gene Therapy for Cancer Retreat. June 24, 1995, Johnstown, PA.

217. Lotze MT. Gene Therapy of Infectious Diseases and Cancer. *Can J Infect Dis.* 6:191C, 1995.
Presented: Plenary Session of the 19th International Congress of Chemotherapy, July 17th, 1995, Montreal.
218. Lotze MT. Biologic Therapy of Cancer. A New Role for Dendritic Cells. PCI Grand Rounds; September 1, 1995; Pittsburgh, PA.
219. Couderc F, Amoscato A, Storkus WJ, Hempel JD, Lotze MT. MHC Class I Peptides Identification in Melanoma Cells by Micellar Electrokinetic Chromatography and Laser-induced Fluorescence Detection.
Presented: Eighth International Symposium on High Performance Capillary Electrophoresis. January 21-25, 1996; Orlando, FL.
220. Zitvogel L, Storkus WJ, Tahara H, Mayordomo JI, Tjandrawan T, Robbins PD, Lotze MT. Cancer Vaccines Engineered with IL-4/IL-12+B7.1: Towards the Adaptive Immunotherapy Using Genetically Modified Dendritic Cells.
Presented: 2nd European Conference on Gene Therapy of Cancer; King's College, Strand, London; September 7, 1995.
221. Doughty LA, Patrene K, Boggs SS, Tahara H, Lotze MT, Evans CH, Robbins PD. The effect of constitutive expression of viral IL-10 or soluble TNF receptor (p75) in mice reconstituted with genetically modified bone marrow stem cells on endotoxin induced IL-6 production. *Pediatric Research* 37(4):44A, 1995.
Presented: Pediatric Research Society.
222. Nishihara K, Barth RF, Lang JC, Wilkie N, Oda Y, Kikuchi H, Lotze MT. Enhanced *in vitro* and *in vivo* tumoricidal activities of IFN- α , IL-4, IL-6, and TNF- α gene transfected macrophages.
Presented: 17th Symposium on the International Association for Comparative Research on Leukemia and Related Disease; Gene Therapy: New Frontiers. Dublin, Ireland; September 18-21, 1994.
223. Goydos JS, Finn OJ, Lotze MT. Induction of specific immune reactivity in patients with adenocarcinomas of the breast, pancreas and colon using a synthetic mucin vaccine in a Phase I trial.
Presented: 29th Annual Meeting of the Association for Academic Surgery, Dearborn, Michigan, November 8-11, 1995.
224. Tahara H, Zitvogel L, Robbins PD, Lotze MT. IL-12 gene therapy using direct injection of tumors with genetically engineered autologous fibroblasts. *Gene Therapy* 2:674(006), 1995.
Presented: The First Annual Meeting 1995 Japanese Society of Gene Therapy, The University of Tokyo, Bunkyo-ku, Tokyo, Japan, May 21, 1995.
225. Lotze MT, Storkus WJ, Tahara H, Amoscato A, Mayordomo HI, Zitvogel L. Molecular vaccines

for cancer - role of IL-12. Immunology 86:Suppl. 1-28(IS42), 1995.

Presented: Joint Congress of the British Society of Immunology and the Nederlandse Vereniging voor Immunologie; Brighton, UK; Dece 6-8, 1995.

226. Finn OJ, McKolanis JR, Nalesnik MA, Clarke MR, Lotze MT, Ochoa AC. T cell defects in advanced breast, pancreatic, and colon cancer and improvements after vaccination with a mucin peptide. Proc. Amer. Assoc.Cancer Research 37:475 (3344), 1996.
Presented: 1996 Annual AACR Meeting; April 21, 1996; Washington, DC.
227. Robbins PD, Ghivizzani SC, Kang R, Storkus WJ, Tahara H, Zitvogel L, Couderc B, Lotze MT. Development of gene therapies for arthritis and cancer.
Presented:Luneborg Symposium on Interdisciplinary Approaches to Gene Therapy. Luneborg, Germany March 25-27, 1996.
228. McKolanis JR, Pecher G, Lotze MT, Finn-OJ. Mucin reactive CTL induced by *in vivo* immunization. Proc. Amer. Assoc.Cancer Research 37:466 (3177).
Presented: 1996 Annual AACR Meeting; April 23, 1996; Washington, DC.
229. Zitvogel L, Mayordomo JI, Tjandrawan T, DeLeo AB, Lotze MT, Storkus WJ. Therapy of poorly immunogenic murine tumors with tumor peptide-pulsed dendritic cells: Induction of a specific antitumor immune response mediated by T-cells, Th1-associated cytokines and B7 costimulation. Proc. Amer. Assoc.Cancer Research 37:473 (3225).
Presented: 1996 Annual AACR Meeting; April 22, 1996; Washington, DC.
230. Mayordomo JI, Loftus JJ, Sakamoto DJ, Lotze MT, Storkus WJ, Appella E, DeLeo AB. Therapy of murine tumors with p53 wild type sequence peptide-based vaccine. Proc. Amer. Assoc.Cancer Research 37:475 (3244).
Presented: 1996 Annual AACR Meeting; April 23, 1996; Washington, DC.
231. Dookeran KA, Shipe-Spotloe J, Rubin JT, Sikora SS, Kirkwood JM, Lotze MT, Logan T. Low dose systemic interleukin-2 therapy to patients with associated co-morbid conditions. Proc. Amer. Assoc.Cancer Research 37:488 (3330).
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232. Tahara H, Zitvogel L, Storkus WJ, Elder EM, Kinzler D, Whiteside TL, Robbins PD, Lotze MT. Phase I clinical trial of interleukin-12 (IL-12) gene therapy using direct injection of tumors with genetically engineered fibroblasts. Proc. ASCO 15:235 (579), 1996.
233. Atkins M, O'Boyle K, Sosman J, Wiss G, Lotze M, Dutcher J, Fisher R. Prospective randomized trial of lisofylline (LSF) for the modulation of interleukin-2 (IL-2) toxicity. Proc. ASCO 15:273(729).
234. Davis ID, Suzuki T, Tahara H, Robbins P, Narula S, Zavodny P., Lotze MT. Murine interleukin-4 (mIL-4)-based therapeutic tumor vaccines generated by transfection of multiple genes into a poorly immunogenic tumor cell line. Proc. ASCO 15:555(1808), 1996.
235. Storkus WJ, Kirkwood JM, Mayordomo JI, Kinzler D, Johnson C, Tahara H, Elder E, Baar J,

- Davis J, Paradise C, Shipe-Spotloe J, Lotze MT. Melanoma peptide vaccine: a randomized Phase I evaluation of MART-1, gp100, and tyrosinase peptide vaccines in patients with malignant melanoma. *Proc. ASCO* 15:556, 1996.
236. Atkins MB, Robertson M, Gordon MS, Lotze MT, Du Bois J, Ritz J, Sandler A, Edington HD, Sherman ML. Phase I evaluation of intravenous recombinant human interleukin-12 (rHIL-12) in patients with advanced malignancy. *Proc. ASCO* 15:270(718), 1996.
 237. Lotze MT. Gene Therapy for Surgical Cancers. The 1st British Journal of Surgery Lecturer; 84th Meeting of the Surgical Research Society; Birmingham, June 27th, 1996.
 238. Lotze MT State of the Art Lecture: Gene Therapy and Clinical Medicine. Update in Internal Medicine: Practice in the New Health Care Environment.
Presented October 30th, 1996; Pittsburgh, PA.
 239. Shurin MR, Marakovsky E, Lotze MT. FLT3-ligand inhibits tumor progression in murine model. *J. Immunotherapy*
Presented: 11th Annual Society of Biological Therapy Meeting, Washington, DC; October 23-26, 1996.
 240. Bozik ME, Lotze MT, Chambers WH. Effective treatment of CNS tumor with IL-4 producing glioma vaccine. *J. Immunotherapy*
Presented: 11th Annual Society of Biological Therapy Meeting, Washington, DC; October 23-26, 1996.
 241. Berman RM, Rilo HL, Hoehnke C, Shurin MR, Naula SK, Maraskovsky E, Lotze MT. Interleukin-10 effects on in vivo generation and in vivo function of dendritic cells. *J. Immunotherapy*
Presented: 11th Annual Society of Biological Therapy Meeting, Washington, DC; October 23-26, 1996.
 242. Farhood H, Linsley PSS, Storkus WJ, Lotze MT. Immunopotential by CD28 and Interleukin 12. *J. Immunotherapy*
Presented: 11th Annual Society of Biological Therapy Meeting, Washington, DC; October 23-26, 1996.
 243. Cai Q, Presky D, Robbins PD, Lotze MT, Tahara H. Interleukin-12 (IL-12) expression at the tumor site is critical in natural tumor rejection but not in mouse IL-10 mediated anti-tumor effects. *J. Immunotherapy*
Presented: 11th Annual Society of Biological Therapy Meeting, Washington, DC; October 23-26, 1996.
 244. Sikora R, Rilo H, Tahara H, Lotze MT, Carty SE. Viral Interleukin-10 (vIL-10) expression in rat pancreatic islets by bioballistic Gene Transfer. *Proc. Assoc. Acad. Surg.* 30:78(30). 1996.
Presented: 30th Annual Meeting Association for Academic Surgery, November 13th-16th, 1996; Chicago, Ill.
 245. Chau Gar-Yang, Dooker SA, Brumfield A, Tueting T, Lotze MT, Rubin JT. Effective

antitumor activity of interferon alfa plus ethiodol in an animal model. Proc. Assoc. Acad. Surg.30:167(P9). 1996.

Presented: 30th Annual Meeting Association for Academic Surgery, November 13th-16th, 1996; Chicago, Ill.

246. Logan T, Elder E, Whiteside T, Kirkwood J, Lotze M, Friberg D, Hrebinko R, Donnelly S, Becich M, Edington H, Shipe-Spotloe J, Hakala T. Pilot study of *in vitro* sensitization with anti-CD3 (OKT3) stimulated vaccine draining lymph node lymphocytes in patients with metastatic renal carcinoma and melanoma. Proc. ASCO 16:432a (1551),1997.
Presented: ASCO Annual Meeting, May 17-20, 1997; Denver, CO.
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272. Lotze MT. Therapy of Cancer with Dendritic Cells.
Presented: Immunologic Attacks on Cancer, Cold Spring Harbor and the Banbury Center; October 19-22, 1997.
273. Lotze MT. Regional Therapy of Cancer.
Presented: University of Hawaii at Manoa; October 27, 1997.
274. Lotze MT. Apoptosis in the tumor microenvironment.
Presented: University of Sapporo; Sapporo, Japan; October 28, 1997.
275. Lotze MT. IL-12 transfected fibroblasts or DC=s for cancer therapy.
Presented: The 27th Annual Meeting of the Japanese Society for Immunology; Sapporo, Japan; October 29, 1997.
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Presented: FASEB/AAI Annual Meeting, April 19, 1998, San Francisco.
280. M Atkins, J Dutcher, M Gordon, T Goss, T Logan, M Lotze, K Margolin, T Plasse, J Sosman, G Weiss Quality of life (QOL) assessment of patients with renal cancer treated with interleukin-2, interferon α and 5-fluorouracil.
To be presented: Annual ASCO Meeting.
281. Agarwala SS, Von Oosterom A, Petruzelli G, Johnson JT, Fritz MA, Horowitz JA, Rybak ME,

Burke E, Van de Bogaert, Lotze MT. Phase I study of rAd/p53 in patients (pts) with advanced head and neck cancer (HNC).

To be presented: Annual ASCO Meeting.

282. Dookeran KA, Hanan SH, Lotze MT. Effective regional therapy of cancer with sustained-release nitric oxide-donor, nitroprusside in ethiodol.
Presented: 51st Annual Society of Surgical Oncology Meeting, San Diego, March 26-29, 1998.
283. Flaherty LE, Atkins M, Clark J, Dutcher J, Gordon M, Lotze M, Margolin K, Sosman J, Weiss G. Randomized Phase II trial of chemotherapy and outpatient biotherapy with Interleukin-2 (IL-2) and interferon alpha (IFN) in metastatic malignant melanoma (MMM).
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Presented: New York Chemotherapy Symposium.
285. Chikamatsu K, Whiteside TL, Storkus W, Lotze MT and DeLeo AB. Generation of human cytotoxic T lymphocytes recognizing wild-type sequence p53 epitopes from peripheral blood lymphocytes using autologous dendritic cells. *Proc Amer Assoc Cancer Res* 39:84(569), 1998
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Presented: FASEB/AAI Annual Meeting, April 19, 1998, San Francisco.
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Presented: Digestive Diseases Week, May 18, 1998, New Orleans.
290. Lotze MT. Immunotherapy of Unresectable Pancreatic Carcinoma. *Digestive Diseases Week and the 98th Annual Meeting of the American Gastroenterologic Association. 1998 Consensus Conference Program.*

Presented: Digestive Diseases Week, May 18, 1998, New Orleans.

291. Lotze MT. Dendritic cell therapies.
Presented ASCO Education Session on Tumor Vaccines. Saturday May 16, 1998 and Sunday May 17, 1998., Los Angeles.
292. Lotze MT. Dendritic Cell Based Therapy of Cancer.
Presented at the 10th British Cytokine Group Meeting in London; June 18th, 1998.
293. Lotze MT, Ronna Campbell, Andrew Amoscato, Robbie Mailliard, Walter J. Storkus, Hideaki Tahara, Michael Shurin. "Dendritic cells Regulate the Immune Response to Cancer"
Presented: 13th Aspen Cancer Conference July 19th, 1998.
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Presented: Submitted American Thoracic Society, April 23-28, 1999.
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Presented: Association of Academic Surgery Seattle November 19-22, 1998.
296. Lotze MT. Genetically Modified Dendritic Cells as Vaccines.
Presented: Postgraduate Course No. 15 - Molecular Biology for Surgeons: A Primer. 84th Annual Clinical Congress of the American College of Surgeons, Orlando FL; October 27, 1998.
297. Shurin MR, Esche C, Peron J-M, Hunter OC, Lotze MT. FLT3 Ligand (FL) and Interleukin-12 (IL-12) regulate generation, migration, and survival of dendritic cells (DC). Eur. Cytokine Network 9:509 (#229).
Presented: International Cytokine Conference Jerusalem, September 1998.
298. Lotze MT. Enhancement of Immune Response by Cytokines.
Presented: Keystone Symposium, HIV Vaccine Development: Opportunities and Challenges. Keystone, CO. January 8, 1999.
299. Lotze MT. Angiogenesis and the Dendritic Cell System.
Presented: First International Symposium on Anti-Angiogenic Agents. Irving, TX. January 29, 1999.
300. Lotze MT. Direct Delivery of Dendritic Cells to Tumors.
Presented: International Workshop on the Use of Dendritic Cells in Cancer Therapy. Innsbruck, Austria. February 11, 1999.
301. Lotze MT. Recognizing Melanoma – evaluation and treatment.
Presented: Citizens General Hospital, New Kensington, PA. March 9, 1999.
302. Lotze MT. Cytokine Gene Therapy of Cancer.

Presented: Cancer Progress Conference March 22-23, 1999. The Plaza, New York City.

302. Lotze MT. Tumor Vaccines
Presented: American Association for Cancer Research 90th Annual Meeting.
Philadelphia, PA. April 10-14, 1999.
303. Lotze MT. The Role of Dendritic Cells in Cancer Vaccines.
Presented: Fifth International Congress on Biological Response Modifiers. Toronto,
Canada. April 29-30, 1999.
304. Egawa S. Lotze MT. Future Directions for the Biologic Therapy for Pancreatic Cancer.
Presented: Innovations in GI Cancer Control and Management: Genetics and Pancreatic
Cancer. Pittsburgh, PA. May 3, 1999.
305. Lotze MT. Melanoma Vaccines
Presented: Hematology/Oncology Noontime Conference. Dartmouth-Hitchcock
Medical Center. Lebanon, NH May 13, 1999.
306. Flaherty LE, Atkins M, Sosman HJ, Clark J, Margolin K, Dutcher J, Gordon M, Lotze M, Weiss
G. Randomized Phase II Trial of Chemotherapy and outpatient biotherapy with Interleukin-2 (IL-
2) and interferon alpha (IFN) in metastatic malignant melanoma (MMM).
Presented: ASCO, May 14, 1999.
306. Kang W-K, Park C, Lee H, Jang S, Choi K, Kim WS, Yoon SS, Lee H-K, Yang J-Y, Lotze MT,
Robbins PS, Tahara H, Kim S, Park K, Park CH. A Phase I Clinical Trial of Gene Therapy with
Interleukin-12 Gene-modified Autologous Fibroblasts: Monitoring of the Immune Response.
Presented: American Society of Gene Therapy; Washington, DC. June 11, 1999.
307. Lotze MT. Into Thin Air – Regulation of the Acute and Chronic Inflammatory Response by
Interferon γ Inducing Cytokines.
Presented: British Cytokine Group - Perspectives in Cytokine Research. London, UK.
June 18-19, 1999.
308. Lotze MT. Advances in Vaccine Therapy for Cancer.
Presented: Surgery Branch/ACS Research Seminar Program. Bethesda, MD. August
27, 1999.
309. Lotze MT. Cytokine Gene Therapy of Cancer Using Fibroblasts or DCs.
Presented: 1999 Meeting of the Institute of Human Virology. Baltimore, MD.
September 2, 1999.
310. Mailliard RB, Lotze MT. Major Phenotypic, Morphologic and Functional Differences between
DCs Stimulated with Monocyte-condition Medium or Cytokine Cocktail.
Presented: Tumor Escape from Immune Recognition: Molecular Mechanism and
Functional Significance Meeting. Baltimore, MD. August 22-23, 1999.
311. Lotze MT. Summary: Antitumor Response in RCC

Presented: First International Kidney Cancer Symposium. Chicago, IL. October 2, 1999

312. Lotze MT. Protection of Effector Cells in the Tumor Microenvironment: DC, Vaccines, Cytokines.
Presented: International Cancer Microenvironment Forum. Pittsburgh, PA. October 4-5, 1999.
313. Lotze MT. Dendritic Cell Therapy: Not Just an Antigen Presenting Cell.
Presented: 6th International Workshop on Langerhans Cells. New York, NY October 9, 1999.
314. Lotze MT. Dendritic Cell Therapy of Cancer
Presented: Surgical Biology Club 47th Annual Meeting. San Francisco, CA October 10, 1999.
315. Lotze MT. Novel Cytokines in the Treatment of Cancer.
Presented: AACR-NCI-EORTC International Conference. Molecular Targets and Cancer Therapeutics. Washington, DC. November 16, 1999.
316. Lotze MT. Dendritic Cells – not just antigen-presenting cells.
Presented: DC Approaches to Immunotherapy. Boston, MA October 31, 1999.
317. Numasaki M, Nukiwa T, Robbins D, Lotze MT, Tahara H. CD40L expression by tumor cells elicits potent anti-tumor immunity: IL-12 dependent and IFN- γ -independent mechanism and in cooperation with GM-CSF and IL-12. Proc. AACR 91:114 (#725), 2000
Presented: AACR 91st Annual Meeting April 1-5, 2000, San Francisco, CA
318. Okada H, Attanucci J, Witham T, Villa L, Erff M, Fellows WK, Lotze MT, Chambers WH, Pollack IF. Effective combination therapy using a dendritic cell vaccine and local interleukin-4 gene delivery for gliomas. Proc. AACR 91:114 (#727), 2000
Presented: AACR 91st Annual Meeting April 1-5, 2000, San Francisco, CA
319. Dworacki G, Meidenbauer N, Kuss I, Saito T, Hoffmann T, Gooding W, Lotze M, Whiteside TL. Tumor-induced signaling defects and apoptosis in circulating T cells of patients with metastatic melanoma. Proc. AACR 91:711 (#4522), 2000
Presented: AACR 91st Annual Meeting April 1-5, 2000, San Francisco, CA
320. Pirtskhalaishvili G, Gambotto A, Yamabe K, Lotze MT, Shurin MR. Protection of dendritic cells (DC) from tumor-induced apoptosis increases the efficacy of DC-based therapy in a murine prostate cancer model. Proc. AACR 91:43 (#277), 2000
Presented: AACR 91st Annual Meeting April 1-5, 2000, San Francisco, CA
321. Egawa S, Mailiard R, Lotze MT. Peripheral blood monocytes derived dendritic cells generated with interferon- α and granulocyte-macrophage colony-stimulating factor are potent IL-12 producers. Proc. AACR 91:191 (#1223), 2000
Presented: AACR 91st Annual Meeting April 1-5, 2000, San Francisco, CA

322. Esche C, Cai Q, Subbotin VM, Lotze MT, Shurin MR. Interleukin-12 stimulates predominantly myeloid dendropoiesis while FLT3 ligand stimulates both myeloid and lymphoid dendropoiesis in vivo. Proc. AACR 91:375(#2378),2000
Presented: AACR 91st Annual Meeting April 1-5, 2000, San Francisco, CA
323. Shurin GV, Shurin MR, Lotze MT, Barksdale EM. Neuroblastoma-derived gangliosides inhibit dendritic cell generation and function. Proc. AACR 91:415(#2644),2000
Presented: AACR 91st Annual Meeting April 1-5, 2000, San Francisco, CA
324. Shurin MR, Lotze MT. A new mechanism of antitumor activity of IL-12: Stimulation of the dendritic cell system. Proc. AACR 91:521(#3321),2000
Presented: AACR 91st Annual Meeting April 1-5, 2000, San Francisco, CA
325. Lotze MT. Molecular Targets for Melanoma Therapy; invited speaker in AACR Minisymposia on Melanoma (Chair: Nicholas Hayward)
Presented: AACR 91st Annual Meeting April 1-5, 2000, San Francisco, CA
326. Shurin MR, Esche C., Galaychuk I, Lotze MT. Melanoma-induced inhibition of the dendritic cell system. Proc. ASCO 36: 556a(#2189),2000
Presented: ASCO 36th Annual Meeting May 20-23, 2000, New Orleans, LA
327. Jonak ZL, Ho YS, Trulli S, McCabe FL, Maier C, Kirkpatrick R, Elefante L, Chen Y-J, Herzyk D, Johansen K, Lotze MT, Johnson RK. IL18 mediates antitumor effects in advanced murine tumor models. J. Immunotherapy, in press.
Presented: SBT 15th Annual Scientific Meeting, Seattle October 28-31, 2000.
328. Shimamura H, Cumberland R, Hiroishi K, Watkins SC, Lotze MT, Baar J. Murine dendritic cells induce the apoptosis of a syngeneic tumor. J. Immunotherapy, in press.
Presented: SBT 15th Annual Scientific Meeting, Seattle October 28-31, 2000.
329. Son Y-I, Mailliard RB, Myers EN, Lotze MT. Dendritic cells with apoptotic tumors have antitumor effects when combined with IL-2. J. Immunotherapy, in press.
Presented: SBT 15th Annual Scientific Meeting, Seattle October 28-31, 2000.
330. Mailliard RB, Egawa S, son Y-I, Bahnson A, Lotze MT. Dendritic cells and T-cell interactions following specific engagement of tumor. J. Immunotherapy, in press.
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331. Zdenka L Jonak, Stephen Trulli, Francis L McCabe, Danuta Herzyk, Robert Kirkpatrick, Louis Elefante, Yi-Jiun Chen, Kyung Johanson, Curtis Maier, Yen Sen Ho, Michael T Lotze, Randall K Johnson. IL-18 is an Immunomodulator of Anti-tumor Response in Advanced Murine Tumor Models
Presented: AACR, New Orleans, 2001.
332. Fujii S-I, Shimizu K, Shimizu T, Lotze MT. Survival of antigen specific CD8+ T cells capable of mediating rapid effector function and tumor elimination.
Presented: IL10 Meeting, 2001; Milan, Italy.

333. Lotze Michael T. Novel Biologic Approaches in Lung Cancer.
Presented: 2nd International Lung Cancer Congress. Kauai, Hawaii; July 18-21, 2001.
334. Sallusto Federica and Lotze Michael T. Workshop 2.7. Origin and Migration of Dendritic Cells.
Presented: 11th International Congress of Immunology. 22-27 July 2001; Stockholm, Sweden.
335. Lotze Michael T. Interleukin 18 and the regulation of Immunity.
Presented: Trudeau Institute; February, 2001. 100 Algonquin Avenue; Saranac Lake, NY. 12983.
336. Lotze Michael T. Interleukin 18 promotes immune response to cancer.
Presented: Surgery Branch, NCI. Bethesda MD; August 29, 2001.
337. Lotze Michael T. Dendritic cells mediate cytokine dependent antitumor effects.
Presented: German Immunology Society Meeting, September 29, 2001.
338. Agha-Mohammadi Siamak, Lotze Michael T. Second generation tetracycline-regulated promoters.
Presented: 5th Annual Society of Gene Therapy. June 5-9, 2002; Molecular Therapy 5:S28[76], 2002.
339. Jonak ZL, Trulli S, McCabe FL, Chen Y-J, Elefante L, Tapley P, Herold K, Kirkpatrick R, Johanson K, Herzyk D, Lotze MT, Johnson RJ. Interleukin-18 has curative activity in advanced murine tumors: Association with T/NK/DC cellular infiltrates.
Presented: 93rd Annual Meeting of the American Association for Cancer Research, San Francisco CA, April 6-10, 2002. Proc Amer Assoc Cancer Res 43:438 [2178], 2002.
340. Lotze Michael T. The message is in the medium: Dendrikinines including IL-18 regulate immunity.
Presented: First Cellular Therapy Speaker, American Red Cross-Holland Laboratories; Rockville, MD; May 29, 2002.
341. Lotze Michael T. Interleukin 18 Regulates the Immune Response - Preclinical Studies.
Presented: University of Western Australia, June 11, 2002.
342. Lotze Michael T. The Acute and Chronic Immune Response in Cancer - Views of a DC Chauvanist [Evangelist]
Presented: Western Australia Branch, Australasian Society of Immunology, June 12, 2002
343. Lotze Michael T, Robbie B. Mailliard, Fumiaki Tanaka, Hideaki Tahara, Andrea Gambotto, Sanjay Kumar, Pawel Kalinski. DC-Activating Function of the IL-1 Homologues [IL-1, IL-18, IL-1F7] and NK Cells in the Development of Antitumor Responses.
Presented: 17th Annual Society for Biological Therapy; San Diego; November 9, 2002.
344. Lotze Michael T. Integrating NK and DC into Cancer Therapy. Keynote Speaker.
Presented: 6th Annual Regional Biotherapy Symposium, February 22, 2003.

- 345. Lotze Michael T and Bartlett D. Surgical Forum III; Cochair and Speaker
Presented 53rd Society of Surgical Oncology Meeting; Los Angeles, CA; March 8; 2003.
- 346. Lotze Michael T. Identifying and Integrating Biomarkers and Surrogates into the Biologic
Therapy of Cancer
Presented: Cancer Progress 2003; NY, NY March 17-18, 2003.
- 347. Lotze Michael T. Cancer as a Chronic Inflammatory Disease. Use of Cell Therapies.
Presented: 62nd Scientific Meeting of Taiwan Surgical Association., March 29-30, 2003;
Taipei, Taiwan.